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Tohru Kanegae

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EXAMINER

HEYI, HENOK G

ART UNIT

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**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b> 10/501,383	<b>Applicant(s)</b> KANEGAE ET AL.	
	<b>Examiner</b> HENOK G. HEYI	<b>Art Unit</b> 2627	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 15 July 2004.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 15-28 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 15-28 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07/15/2004 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)            | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)   | Paper No(s)/Mail Date. _____                                      |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### ***Claim Rejections - 35 USC § 101***

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim **28** is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. What is being claimed in claim 28 is a data structure including a control signal. According to IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5<sup>th</sup> ed. 1993) "data structure" is defined as "a physical or logical relationship among data elements, designed to support specific data manipulation functions." Data structure, unless employed as a computer component or combined with an appropriate computer readable medium, is not statutory.

### ***Double Patenting***

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

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Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 15-28 are rejected on the ground of nonstatutory double patenting over claims 1, 2, 3, 4, 5, 6, 7, 8, 9 and 13 of U. S. Patent No. 6,985,411 B2 since the claims, if allowed, would improperly extend the "right to exclude" already granted in the patent.

The subject matter claimed in the instant application is fully disclosed in the patent and is covered by the patent since the patent and the application are claiming common subject matter, as follows:

Present Application 10501383	U. S. Patent No. 6,985,411 B2
<p>15. (new) An information recording medium on which one or a plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play</p>	<p>Claim 1 (Original): An information recording medium on which one or a plurality of titles, each of which is a logically-grouped information unit, are recorded, comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p>

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<p>list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically comprising one or more than one of the plurality of information groups,</p> <p><b>the Pre command information including a Pre command table on which a command group constructed of zero, one or more statements are written,</b></p> <p><b>the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written,</b></p> <p><b>the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table.</b></p>	<p>the title being logically constructed by one or more than one of the plurality of information groups.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
<p>16. (new) The information recording medium according to claim 15, wherein the object data is constructed such that an entire</p>	<p><b>Claim 3 (Original):</b> The information recording medium according to claim 1, wherein the object data is constructed such that an entire stream including a plurality of portion streams, each</p>

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<p>stream including a plurality of portion streams, each of which comprises the content information, is multiplexed by a unit of packet, which is a physically accessible unit and which stores therein a piece of the content information,</p> <p>said information recording medium further comprising an object information file for storing correspondence definition information which defines the correspondence relationship between a plurality of packets to be multiplexed and the plurality of portion streams as reproduction control information for controlling the reproduction of said object data file.</p>	<p>of which comprises the content information, is multiplexed by a unit of packet, which is a physically accessible unit and which stores therein a segment of the content information,</p> <p>said information recording medium further comprising an object information file for storing correspondence definition information which defines the correspondence relationship of a plurality of packets to be multiplexed and the plurality of portion streams as another reproduction control information for controlling the reproduction of said object data file.</p>
<p>19. (new) An information recording apparatus for recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium, said information recording apparatus comprising:</p> <p>a first recording device for recording an object data file for storing object data which constitutes a series of content information;</p> <p>a second recording device for recording a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and</p> <p>a third recording device for recording a disc information file for storing a plurality of</p>	<p>Claim 4 (Amended): An information recording apparatus for recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium,</p> <p>said apparatus comprising:</p> <p>a first recording device for recording an object data file for storing object data which constitutes a series of content information;</p> <p>a second recording device for recording a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a third recording device for recording a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list</p>

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<p>information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically comprising one or more than one of the information groups,</p> <p><b>the Pre command information including a Pre command table on which a command group constructed of zero, one or more statements are written,</b></p> <p><b>the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written,</b></p> <p><b>the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table.</b></p>	<p>information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically constructed by one or more than one of the information groups.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
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<p>20. (new) An information recording method of recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium, said information recording method comprising:</p> <p>a first recording process of recording an object data file for storing object data which constitutes a series of content information;</p> <p>a second recording process of recording a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and</p> <p>a third recording process of recording a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p>	<p>Claim 5 (Amended): An information recording method of recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium,</p> <p>said method comprising:</p> <p>a first recording process of recording an object data file for storing object data which constitutes a series of content information;</p> <p>a second recording process of recording a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a third recording process of recording a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically constructed by one or more than one of the information groups.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
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<p>the title being logically comprising one or more than one of the information groups,</p> <p><b>the Pre command information including a Pre command table on which a command group constructed of zero, one or more statements are written,</b></p> <p><b>the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written,</b></p> <p><b>the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table.</b></p>	
<p>21. (new) An information reproducing apparatus for reproducing at least one portion of recorded titles from an information recording medium on which one or the plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising: an object data file for storing object data which constitutes a series of content information; a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play</p>	<p>Claim 6 (Original): An information reproducing apparatus for reproducing information recorded on an information recording medium on which one or a plurality of titles, each of which is a logically-grouped information unit, are recorded,</p> <p>the information recording medium comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups</p>

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<p>list which is logically accessible; and a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, the title being logically comprising one or more than one of the plurality of information groups, <b>the Pre command information including a Pre command table on which a command group constructed of zero, one or more statements are written, the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written, the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table,</b></p>	<p>including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically constructed by one or more than one of the information groups, said information reproducing apparatus comprising:</p> <p>a reading device for physically reading the information from the information recording medium; and</p> <p>a reproducing device for reproducing the object data included in the information read by said reading device, on the basis of the reproduction control information and the play list information included in the information read by said reading device.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
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<p>said information reproducing apparatus comprising:</p> <p>a reading device for physically reading information from said information recording medium; and</p> <p>a reproducing device for reproducing the object data included in the information read by said reading device, on the basis of the reproduction control information and the play list information included in the information read by said reading device.</p>	
<p>22. (new) An information reproducing method of reproducing at least one portion of recorded titles from an information recording medium on which one or the plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising: an object data file for storing object data which constitutes a series of content information; a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction</p> <p>of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list</p>	<p>Claim 7 (Amended): An information reproducing method of reproducing information recorded on an information recording medium on which one or a plurality of titles,</p> <p>each of which is a logically-grouped information unit, are recorded, the information recording medium comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p>

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<p>information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, the title being logically comprising one or more than one of the plurality of information groups, <b>the Pre command information including a Pre command table on which a command group constructed of zero, one or more statements are written, the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written, the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table,</b></p> <p>said information reproducing method comprising:</p> <p>a reading process of physically reading information from said information recording medium; and</p> <p>a reproducing process of reproducing the object data included in the information read by said reading device, on the basis of the reproduction control information and the play list</p>	<p>the title being logically constructed by one or more than one of the information groups, said information reproducing method comprising:</p> <p>a reading process of physically reading the information from the information recording medium; and</p> <p>a reproducing process of reproducing the object data included in the information read by in said reading process, on the basis of the reproduction control information and the play list information included in the information read by in said reading process.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
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<p>information included in the information read by said reading device.</p>	
<p>23. (new) An information recording and reproducing apparatus for recording one or a plurality of titles onto and reproducing at least one portion of the recorded titles from an information recording medium on which one or the plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising: an object data file for storing object data Which constitutes a series of content information; a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, the title being logically comprising one or more than one of the plurality of</p>	<p>Claim 8 (Original): An information recording and reproducing apparatus for recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium, and for reproducing information recorded on the information recording medium,</p> <p>the information recording medium comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically constructed by one or more than one of the information groups,</p> <p>said information recording and reproducing apparatus comprising:</p> <p>a first recording device for recording the object data file onto the information recording medium;</p> <p>a second recording device for recording the play list information file onto the information</p>

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<p>information groups, <b>the Pre command information including a Pre command table on which a command group constructed of zero, one or more statements are written, the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written, the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table,</b></p> <p>said information recording and reproducing apparatus comprising:</p> <p>a first recording device for recording the object data file;</p> <p>a second recording device for recording the play list information file;</p> <p>a third recording device for recording the disc information file;</p> <p>a reading device for physically reading information from said information recording medium; and</p> <p>a reproducing device for reproducing the object data included in the information read by said reading device, on the basis of the reproduction control information and the play list information included in the information read by said reading device.</p>	<p>recording medium;</p> <p>a third recording device for recording the disc information file onto the information recording medium;</p> <p>a reading device for physically reading the information from the information recording medium; and</p> <p>a reproducing device for reproducing the object data included in the information read by said reading device, on the basis of the reproduction control information and the play list information included in the information read by said reading device.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
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<p>24. (new) An information recording and reproducing method of recording one or a plurality of titles onto and reproducing at least one portion of the recorded titles from an information recording medium on which one or the plurality of titles, each of which is a logically-grouped information unit, are recorded, said information recording medium comprising: an object data file for storing object data which constitutes a series of content information; a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information, the title being logically comprising one or more than one of the plurality of information groups, <b>the Pre command information including a Pre command table on which a</b></p>	<p>Claim 9 (Amended): An information recording and reproducing method of recording one or a plurality of titles, each of which is a logically-grouped information unit, onto an information recording medium, and of reproducing information recorded on the information recording medium,</p> <p>the information recording medium comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically constructed by one or more than one of the information groups,</p> <p>said information recording and reproducing method comprising:</p> <p>a first recording process of recording the object data file onto the information recording medium;</p> <p>a second recording process of recording the play list information file onto the information recording medium;</p> <p>a third recording process of recording the disc information file onto the information</p>

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<p><b>command group constructed of zero, one or more statements are written, the Post command information including a Post command table on</b></p> <p><b>which a command group constructed of zero, one or more statements are written, the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table,</b></p> <p>said information recording and reproducing method comprising:</p> <p>a first recording process of recording the object data file;</p> <p>a second recording process of recording the play list information file;</p> <p>a third recording process of recording the disc information file;</p> <p>a reading process of physically reading information from the information recording medium; and</p> <p>a reproducing process of reproducing the object data included in the information read by said reading device, on the basis of the reproduction control information and the play list information included in the information read by said reading device.</p>	<p>recording medium;</p> <p>a reading process of physically reading the information from the information recording medium; and</p> <p>a reproducing process of reproducing the object data included in the information read by</p> <p>in said reading process, on the basis of the reproduction control information and the play list information included in the information read in said reading process.</p> <p><b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.</p>
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<p>28.(new) A data structure including a control signal, which includes one or a plurality of titles, each of which is a logically-grouped information unit, said data structure comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically comprising one or more than one of the plurality of information groups,</p> <p><b>the Pre command information including a Pre command table</b></p>	<p>Claim 15 (Amended): A computer data signal embodied in a carrier wave and representing a series of instructions which cause a computer in an information reproducing apparatus to perform method processes of reproducing information recorded on an information recording medium on which one or a plurality of titles, each of which is a logically-grouped information unit, are recorded,</p> <p>the information recording medium comprising:</p> <p>an object data file for storing object data which constitutes a series of content information;</p> <p>a play list information file for storing a plurality of play list information which defines a reproduction sequence of the object data stored in said object data file by a unit of a play list which is logically accessible; and</p> <p>a disc information file for storing a plurality of information groups including, as reproduction control information for controlling the reproduction of said object data file, (i) play list specification information for specifying one play list information which defines the play list to be reproduced from among the plurality of play list information stored in said play list information file, (ii) Pre command information which indicates a command to be executed before the reproduction based on the one play list information, and (iii) Post command information which indicates a command to be executed after the reproduction based on the one play list information,</p> <p>the title being logically constructed by one or more than one of the information groups, said method processes comprising:</p> <p>a reading process of physically reading the information from the information recording medium; and</p> <p>a reproducing process of reproducing the object data included in the information read by in said reading process, on the basis of the reproduction control information and the play list information included in the information read in said</p>

<b>on which a command group constructed of zero, one or more statements are written,  the Post command information including a Post command table on which a command group constructed of zero, one or more statements are written,  the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table.</b>	reading process.  <b>Claim 2 (Original):</b> The information recording medium according to claim 1, wherein said disc information file stores the plurality of information groups in the format of a table for each title.
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The above tabulated claims of the current application and the corresponding US patent are identical in scope. The only difference between these claims is in the current application it has been claimed that the Pre command information and the Post command information including a command pointer which is written separately from the Pre command table and the Post command table and which specifies the address of each command included in the Pre command table and the Post command table. It would have been obvious to one of ordinary skill in the art at the time the invention was made to write the command pointer separately from the pre command table and post command table as shown in Fig. 19 and Fig. 20 of the US application mentioned above.

### **Contact**

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to HENOK G. HEYI whose telephone number is (571)270-1816. The examiner can normally be reached on Monday to Friday 8:30 to 5:00 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Feild can be reached on (571) 272-4090. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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